ESAT DATA VALIDATION EVALUATION CHECKLIST Contract # EP-W-06-016

TO# 0042_ Task Order #: _0042	TDF #: 0208	85	Data Validation Clivar 5 2/22/12 Revision #:0 Project #: _R33917
Site Name: Dimock	Project	t #:	
Reviewer: Ex. 4 - C	BI		50 W #
CLP Laboratory Code: _T	ALB <u>uf</u>		
EPA CLP TPO: _Daniel S EPA RPM:	lizys	F	Region:3
cc: EPA		1	Number of hours spent on review: 6 Number of samples: 20
		7	Validation Type: M3
Date submitted to EPA:	2/22/12	F	Flat File Required Yes X No
CRITERIA	YES NO	2 <u>C</u>	COMMENTS
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Rev.: 5/11//06

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION III



Environmental Sciences Center 701 Mapes Road Fort Meade, Maryland 20755-5350

DATE:

February 24, 2012

SUBJECT:

Region III Data QA Review

FROM:

Colleen Walling

Region III ESAT RPO (3EA20)

TO:

Rich Fetzer

Remedial Project Manager (3HS31)

Attached is the organic data validation report for the Dimock Residential Groundwater site (DAS#: R33917; Case #: 480-15814-1) completed by the Region III Environmental Services Assistance Team (ESAT) contractor under the direction of Region III EAID.

If you have any questions regarding this review, please call me at (410) 305-2763.

Attachment

TO: #0042

TDF: 02097 Data Validation

TO: #0042

TDF: #02085 Sample log-in processing

cc: Gene Nance (Techlaw)

Suddha Graves (Techlaw)

OFFICE OF ANALYTICAL SERVICES AND QUALITY ASSURANCE

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ESAT DATA VALIDATION EVALUATION CHECKLIST Contract # EP-W-06-016

To# 0042 Task Order #: _ 0042	TDF #:	02085	7 Data Validation Cl Revision #: _0 Project	
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Rev.: 5/11//06



Dimock Validation Report Routing Fred Foreman to: Ex. 4 - CBI

Cc: Colleen Walling

- CBI 02/22/2012 04:28 PM

From:

Fred Foreman/ESC/R3/USEPA/US

To:

Ex. 4 - CBI

Cc:

Colleen Walling/ESC/R3/USEPA/US

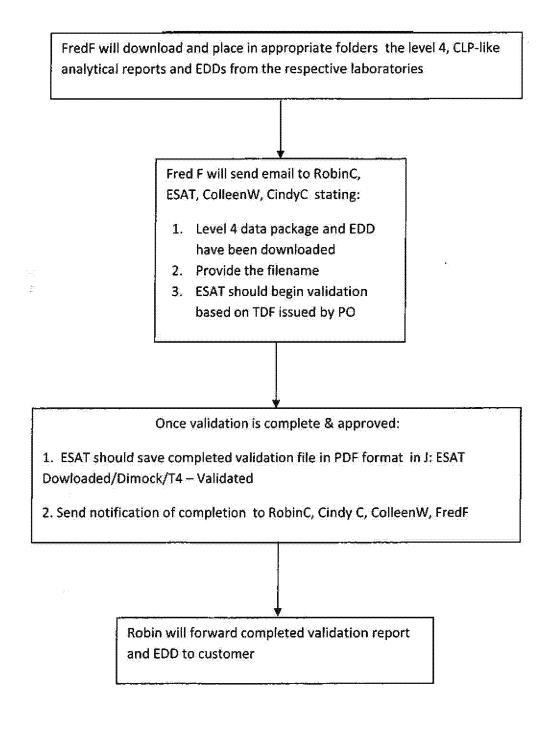
Ex. 4 - CBI

Basically, the final signed report is scanned and saved to Nonresponsive and an email sent to Robin Costas, Colleen, Cindy Caporale and myself letting us know it is done.

data flowchart for validation.docx

Fred Foreman, Chief
Technical Services Branch
Office of Analytical Services & Quality Assurance
US EPA Region III
Ft. Meade, Maryland
410-305-2629

Data Flow for Dimock Tier IV Validation



Site Name: _Dimock		rroject#	480-15814-1	5 T. J. A.
Analysis Type: Organic Reviewer: Ex. 4 - CBI	1i		SOW #:	N/A
CLP Laboratory Code: TAL	n		8	444
CLF Laboratory Code: _IAL	F			
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ESD OVERSIGHT

DATES

Received at EPA
Oversight assigned
Oversight received
Oversight completed
Feedback given
Mailed to RPM

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192/2012(4)

Oversight J.A.K

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DCN: DVEPACHK.WPD

Rev.: 5/11//06

Lockheed Martin IS&GS – Civil
Energy & Environment
ESAT Region 3
US EPA Environmental Science Center
701 Mapes Road Ft. Meade, MD 20755-5350
Telephone 410-305-3037 Facsimile 410-305-3597

DATE:

February 22, 2012

SUBJECT:

Organic Data Validation (Level M3)

Site: Dimock

Case: R33917, PROJECT: 480-15814-1

FROM:

Ex. 4 - CBI

Senior Data Reviewer

Ex. 4 - CBI

Senior Oversight Chemist

TO:

Colleen Walling

ESAT Region 3 Project Officer

OVERVIEW

Third Party Case R33917, Project 480-15814-1, from the Dimock site consisted of twenty (20) aqueous samples analyzed for ethylene glycol, triethylene glycol, diethylene glycol, 2-methoxyethanol and 2-ethoxyethanol. All samples were submitted to TestAmerica Buffalo (TALBUF) for analysis. The sample set contained one (1) rinsate blank and three (3) field blanks. The samples were analyzed according to Test Methods for Evaluating Solid Waste SW-846 Method 8015B.

SUMMARY

Data were validated according to Region 3 Modifications to the National Functional Guidelines for Organic Data Review, Level M3 and is assigned the Superfund Data Validation Label S4VM (Stage_4_Validation_Manual). Areas of concern with data usability are listed below.

MINOR PROBLEM

• The samples were not preserved when received by the laboratory. Sample FB08, collected 2/01/2012, was analyzed 2/09/2012. The technical holding time of seven (7) days for unpreserved organic compounds in this sample was exceeded by one (1) day. No positive results were reported in this sample. Quantitation limits were qualified "UL" on the Data Summary Form (DSF).

NOTES

• Compounds detected below the Reporting Limits (RLs) were qualified "J" on the DSFs unless superseded by "B".

- All Laboratory Control Sample (LCS)/Laboratory Control Sample Duplicate (LCSD) and Matrix Spike/Matrix Spike Duplicate (MS/MSD) recoveries and Relative Percent Differences (RPDs) were within control limits.
- Concentrations of target compounds found in the analysis of samples' associated rinsate, field
 and method blanks are listed below. Only compounds used to qualify data are listed.
 Samples with concentration of these contaminants less than five times (<5X) the blank
 concentration have been qualified "B" on the DSFs.

Blank Method (480-50789-1-A)	Compound diethylene glycol	Concentration 0.721 J mg/L	Affected Samples EB02, FB09, HW09-P, HW28A-P
Method (480-51003-1-A)	triethylene glycol diethylene glycol	4.26 J mg/L 0.724 J mg/L	HW40-P, HW46, HW46-P HW40-P, HW41, HW45, HW46, HW46-P
Rinsate (EB02)	triethylene glycol	4.0 J mg/L	HW28A-P

- Per method 8015B, tentative identification of a single component analyte occurs when a peak
 from a sample extract falls within the daily retention time window. Confirmation is required
 on a second column or by GC/MS. The laboratory did not perform second column
 confirmations. Since no positive results were greater than the RL, no action was taken by the
 reviewer based on this finding.
- The laboratory employed a four (4) point calibration curve instead of a five (5) point calibration curve specified in method 8015B. No data were qualified based on this finding.

ATTACHMENTS

- 1) Appendix A Glossary of Data Qualifiers
- 2) Appendix B Data Summary Forms
- 3) Appendix C Chain of Custody (COC) Records
- 4) Appendix D Laboratory Case Narrative

Ex. 4 - CBI

Appendix A

Glossary of Data Qualifiers

GLOSSARY OF DATA QUALIFIER CODES (ORGANIC)

CODES RELATED TO IDENTIFICATION

(confidence concerning presence or absence of compounds)

U = Not detected. The associated number indicates approximate sample concentration necessary to be detected.

NO CODE = Confirmed identification.

- B = Not detected substantially above the level reported in laboratory or field blanks.
- R = Unusable result. Analyte may or may not be present in the sample. Supporting data necessary to confirm result.
- N = Tentative identification. Consider present.
 Special methods may be needed to confirm its presence or absence in future sampling efforts.

CODES RELATED TO QUANTITATION

(can be used for both positive results and sample quantitation limits):

- J = Analyte present. Reported value may not be accurate or precise.
- K = Analyte present. Reported value may be biased high. Actual value is expected to be lower.
- L = Analyte present. Reported value may be biased low. Actual value is expected to be higher.
- UJ = Not detected, quantitation limit may be inaccurate or imprecise.
- UL = Not detected, quantitation limit is probably higher.

OTHER CODES

NJ = Qualitative identification questionable due to poor resolution. Presumptively present at approximate quantity.

Q = No analytical result.

Appendix B

Data Summary Forms

DATA SUMMARY FORM: Glycols

Page _1___ of _2__

DAS: R33917

PROJECT #: 480-15814-1

Site : Lab. : DIMOCK

Number of Soil Samples: 0 Number of Water Samples: 20

TALBUF

Sampling Location : Laboratory ID: Field QC: Matrix :		EB02		FB08		FB09		FB10	Antholy (natural)	HW09		
		EB02		FB08		FB09		FB10		HW09		
		480-15814	4-1	480-15814-2		480-15814-3		480-15814-4		480-15814-5		
		Rinsate Blank Water		1 · · · · · · · · · · · · · · · · · · ·		Field Blank Water mg/L		Field Blank Water mg/L		Water mg/L		
												Date Sampled :
Time Sampled :												
Dilution Factor:												
Glycols	RL	Result	Flag	Result	Flag	Result Flag		Result Flag		Result	Flag	
Ethylene glycol	10				UL			V /#				
Triethylene glycol	10	4.0	J		UL							
Diethylene glycol	10	0.54	В		UL	0.52	В		10077			
2-Methoxyethanol	10				UL			ľ	I			
2-Ethoxyethanol	10				UL	// / / / / / / / / / / / / / / / / / /						

Sampling Location : Laboratory ID: Field QC: Matrix :		HW09 480-15814-6 Water		HW28A 480-15814-7 Water		HW28A-P HW28A 480-15814-8		HW28B-P HW28B 480-15814-9		HW39 HW39 480-15814-10	
						-tou-1001*	1-0	400-10014-8		480-15814-10	
						Water mg/L 2/03/2012 11:52 1.0		Water mg/L 2/03/2012 14:27 1.0		Water mg/L 2/03/2012 14:42 1.0	
Glycols	RL	Result	Flag	Result	Result Flag		Result Flag		Result Flag		Flag
Ethylene glycol	10		747 204 200 200 200 200	7444 T						(18) + 16 (5) - 14 (1) (18) + 16 (5) - 17 (1)	200 feet (1 200 200 200 200 200 200 200 200 200
Triethylene glycol Diethylene glycol	10 10	0.51	В		6.00 M	2.7 0.59	B B				
2-Methoxyethanol	10										i carriini
2-Ethoxyethanol	10						1			2	

RL = Reporting Limit

*Action Level Exists

SEE NARRATIVE FOR CODE DEFINITIONS

To calculate sample quantitation limits: (RL * Dilution Factor)

Revised 09/99

DAS: R33917

PROJECT #: 480-15814-1

Site :

DIMOCK

Lab.:

TALBUF

Sampling Location		HW39-P	· V · · ·	HW40		HW40-P		HW41		HW41-P		
		HW39		HW40		HW40		HW41		HW41		
		480-1581	4-11	480-15814	-12	480-15814	-13	480-1581	4-14	480-15814-15		
								Water mg/L 2/02/2012 16:12 1.0				
		Water	Water		Water					Water mg/L 2/02/2012 15:54 1.0		
Units:		mg/L 2/03/2012 11:13 1.0		mg/L 2/02/2012 15:39 1.0		mg/L 2/02/2012 15:44 1.0						
Date Sampled :												
Time Sampled :												
Dilution Factor:												
Glycols	RL	Result	Flag	Result	Result Flag		Result Flag		Result Flag		Flag	
Ethylene glycol	10				4,434,7754		78-497-7 711-7-7		Parket Sayes	.,		
Triethylene glycol	10			1		3.0	В				1	
Diethylene glycol	10					0.66	В	0.59	В			
2-Methoxyethanol	10										I	
2-Ethoxyethanol	10											
., ., ., ., .,		**************************************									***************************************	

RL = Reporting Limit

*Action Level Exists

SEE NARRATIVE FOR CODE DEFINITIONS

To calculate sample quantitation limits: (RL * Dilution Factor)

Revised 09/99

Sampling Location : Laboratory ID: Field QC:		HW-42		HW-42Z		HW45		HW46		HW46-P	
		HW-42		HW-42		HW45		HW46		HW46	
		480-15814	1-16	480-15814	-17	480-15814	-18	480-1581	4-19	480-15814-20	
		Water		Water mg/L 2/02/2012 10:29 1.0		Water mg/L 2/02/2012 10:28 1.0		Water mg/L 2/02/2012 11:39 1.0		Water mg/L 2/02/2012 11:24 1.0	
Units :		mg/L 2/02/2012 10:28 1.0									
Date Sampled :											
Time Sampled :	7										
Dilution Factor :											
Glycols	RL	Result	Flag	Result	Flag	Result Flag		Result Flag		Result	Flag
Ethylene glycol	10		33.2								
Triethylene glycol	10							6.2	В	1.7	В
Diethylene glycol	10					0.55	В	1.8	В	0,54	В
2-Methoxyethanol	10	:		I							
2-Ethoxyethanol	10				100						1

RL = Reporting Limit

*Action Level Exists

SEE NARRATIVE FOR CODE DEFINITIONS

To calculate sample quantitation limits: (RL * Dilution Factor)

Revised 09/99

Contract No.: EP-W-06-016 **Environmental Protection Agency** Lockheed Contractor Office of Emergency and Remedial Response Task Order No.: 0042 TECHNICAL DIRECTION FORM Sub-Task No.: 2 **REGION 3 - ESAT** Technical Direction No. 02097 - DateNa 02085 - Sample la Task Order Project Officer: Colleen Walling Phone (410) 305-2763 Data Review Description of Task: Account Number: 2012T03N303DC6A3TARS00 Deliverable Due Date: 02/22/2012 SDG: 480-15814-1 SITE NAME: DIMOCK RESIDENTIAL GROUNDWATER SITE Review the CLP analytical data for case: R33917 Additional sample information can be found on the attached QA assignment slip. Follow data validation procedures outlined in SOPs and Guidance documents listed in the Task Order. Case R33917 Number of Samples 20 W Validation Level: **M**3 Comments: FLAT FILE REQ'D: YES I CERTIFY THAT THIS TECHNICAL DIRECTIVE DOES NOT REQUEST SERVICES THAT ARE INHERENTLY GOVERNMENTAL FUNCTIONS AND THAT IT DOES NOT ALTER THE (1) STATEMENT OF WORK, (2) LEVEL OF EFFORT, (3) COST OF PERFORMING THE AUTHORIZED WORK, (4) NUMBER OF DELIVERABLES, OR (5) THE DUE DATES OF DELIVERABLES FOR THE ABOVE REFERENCED WORK ASSIGNMENT illul CWa-2/22/2012 TOPO Signature Original to Contractor Project Officer Contracting Officer cc: TOPO file